From: 8064986673 To: 00215712738300 Page: 6/17 Date: 2005/12/13 下午 01:48:58

Appl. No. 10/708,331 Amdt. dated December 13, 2005 Reply to Office action of September 14, 2005

## Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

## Listing of Claims:

- 5 1. (original) A back light unit comprising:
  - a light source generator positioned in a backside of a display panel for providing light beams to the display panel;
  - a diffuser positioned between the light source generator and the display panel for uniformly scattering light beams from the light source generator to the display panel; and
  - a housing enclosing the light source generator and connecting to the diffuser for reflecting the light beams to the diffuser, the housing further comprising a heat pipe for being a heat transfer interface between the back light unit and an external environment.
- 15

10

- 2. (original) The back light unit of claim 1, wherein the heat pipe is composed of metal materials.
- 3. (original) The back light unit of claim 1, wherein the material of the heatpipe is selected from copper, alumna, tin, or an alloy of any of the above metal materials.
  - 4. (original) The back light unit of claim 1, wherein the heat pipe is a solid heat-conductive pipe.
- 25
- 5. (original) The back light unit of claim 1, wherein the heat pipe is a hollow heat-conductive pipe, and an inner portion of the hollow

From: 8064986673 To: 00215712738300 Page: 7/17 Date: 2005/12/13 下午 01:48:59

Appl. No. 10/708,331 Amdt. dated December 13, 2005 Reply to Office action of September 14, 2005

heat-conductive pipe contains a cooling liquid.

6. (original) The back light unit of claim 1, wherein the heat pipe is connected to the external environment through a radiator piece for transferring heat to the external environment effectively.

7. (currently amended) The back light unit of claim 1, wherein the heat pipe is positioned at a contact point of the diffuser and an upside of the housing for avoiding affecting paths of the light beams.

10

25

- 8. (original)The back light unit of claim 1, wherein the light source generator comprises a fluorescent tube.
- 9. (original)The back light unit of claim 8, wherein the heat pipe is positioned directly below the fluorescent tube, and a surface of the heat pipe contains a radiative reflective layer for reflecting light beams from the fluorescent tube.
- 10. (original) The back light unit of claim 9, wherein the surface of the heat
  20 pipe is an arc surface for reducing a rate of light beams emitted from the
  fluorescent tube being reflected back to the fluorescent tube.
  - 11. (original) The back light unit of claim 1, wherein a contact surface of the heat pipe and the external environment is a rough surface, the rough surface comprising a plurality of sharp teeth so that a radiating area is increased.
  - 12. (currently amended) The back light unit of claim 1 further comprising a

From: 8064986673 To: 00215712738300 Page: 8/17 Date: 2005/12/13 下午 01:48:59

Appl. No. 10/708,331 Amdt. dated December 13, 2005 Reply to Office action of September 14, 2005

5

25

diffusion sheet or a prism positioned on the diffuser for increasing the utility of the light resource generator.

- 13. (new)A back light unit comprising:
  - a light source generator positioned in a backside of a display panel;
- a diffuser positioned between the light source generator and the display panel; and
- a housing enclosing the light source generator and connecting to the diffuser, the housing further comprising a heat pipe having a substantially are surface.
  - 14. (new) The back light unit of claim 13, wherein the heat pipe is a solid heat-conductive pipe.
- 15. (new) The back light unit of claim 13, wherein the heat pipe is a hollow heat-conductive pipe, and an inner portion of the hollow heat-conductive pipe contains a cooling liquid.
- 16. (new) The back light unit of claim 13, wherein the heat pipe is20 connected to the external environment through a radiator piece for transferring heat to the external environment effectively.
  - 17. (new) The back light unit of claim 13, wherein the heat pipe is positioned at a contact point of the diffuser and an upside of the housing.
  - 18. (new) The back light unit of claim 13, wherein the heat pipe is positioned directly below the light source generator, and a surface of the heat pipe contains a radiative reflective layer for reflecting light beams

From: 8064986673 To: 00215712738300 Page: 9/17 Date: 2005/12/13 下午 01:49:00

Appl. No. 10/708,331 Amdt. dated December 13, 2005 Reply to Office action of September 14, 2005

from the light source generator.

- 19. (new) A back light unit comprising:
  - a light source generator positioned in a backside of a display panel;
- 5 a diffuser positioned between the light source generator and the display panel; and
  - a housing enclosing the light source generator and connecting to the diffuser, the housing further comprising a heat pipe having a rough surface.
- 10 20. (new) The back light unit of claim 19, wherein the rough surface comprising a plurality of sharp teeth.